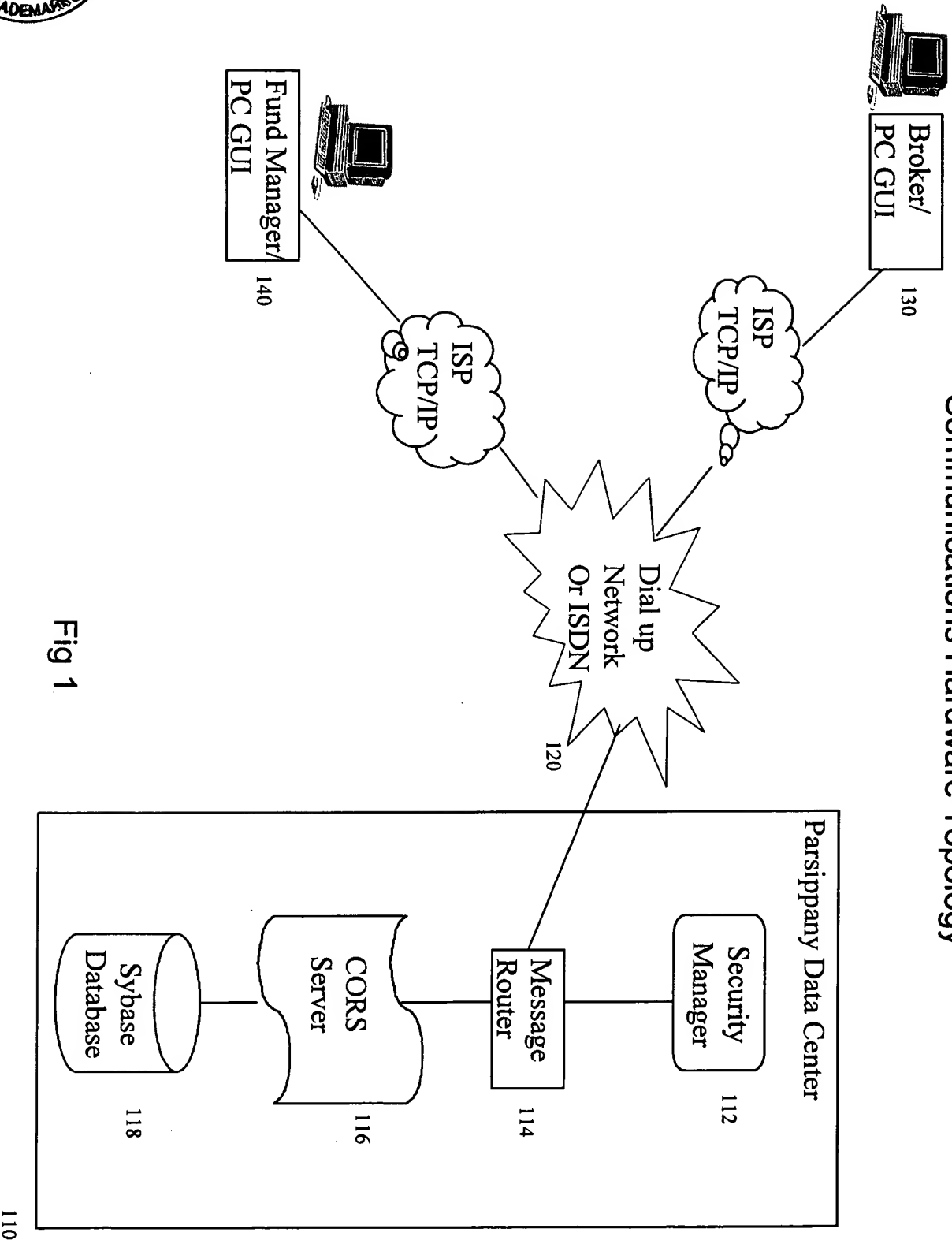




Communications Hardware Topology



System Process – Phase 1

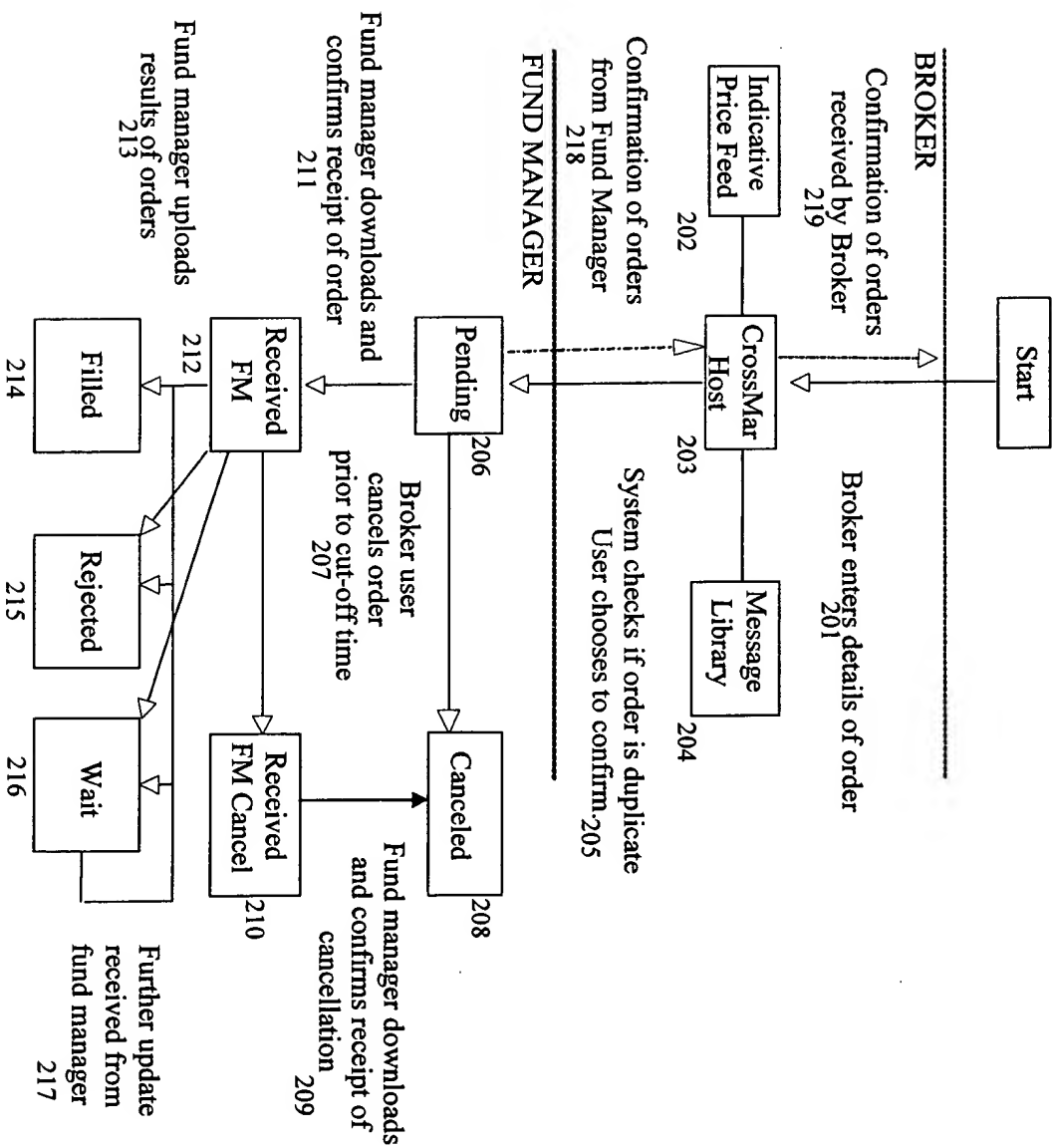


Fig 2

System Schematic

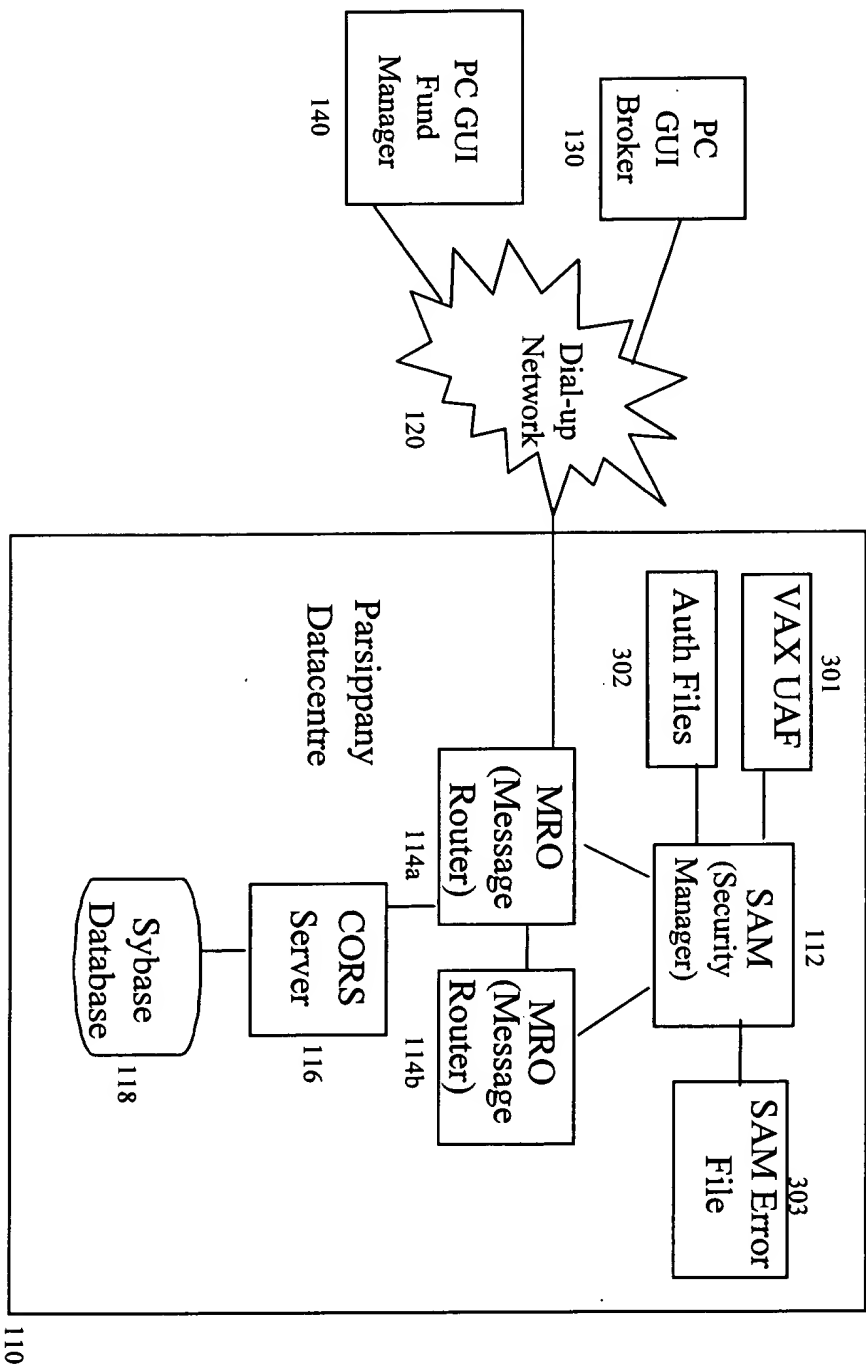


Fig 3A

Design Overview

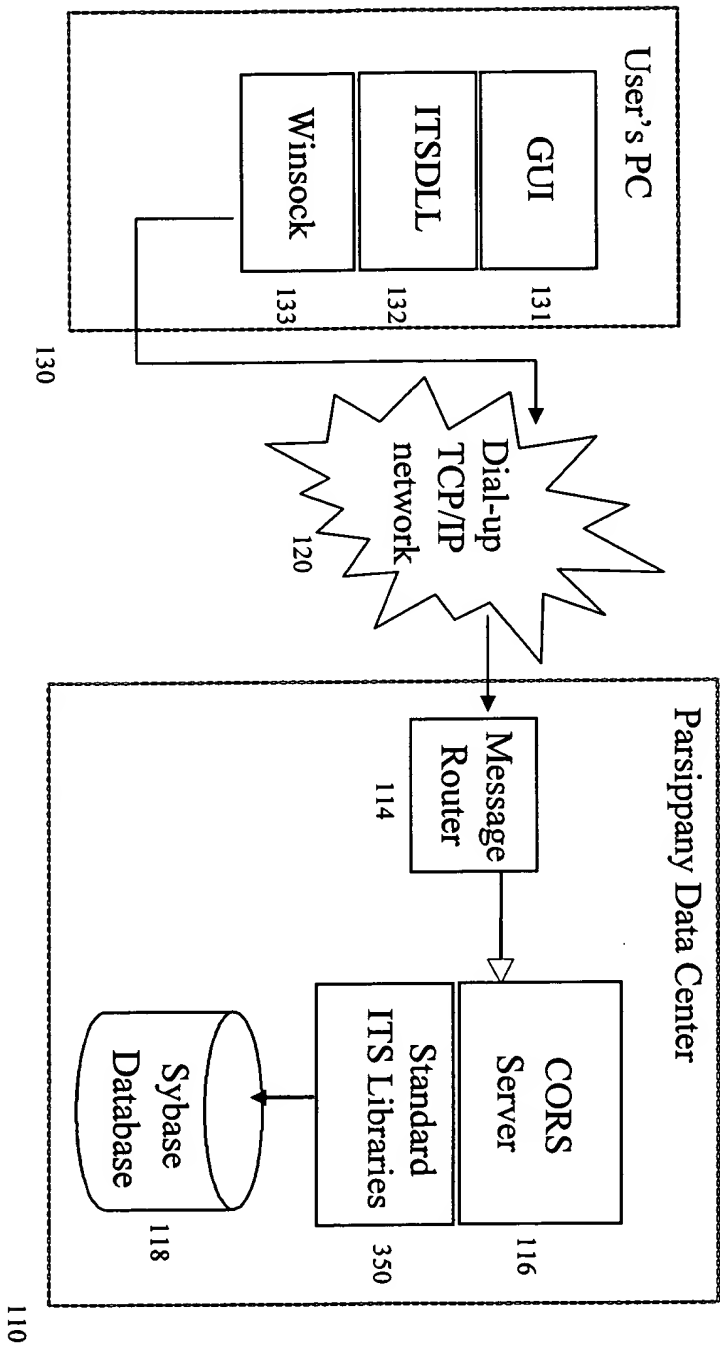


Fig 3B

Database Schematic

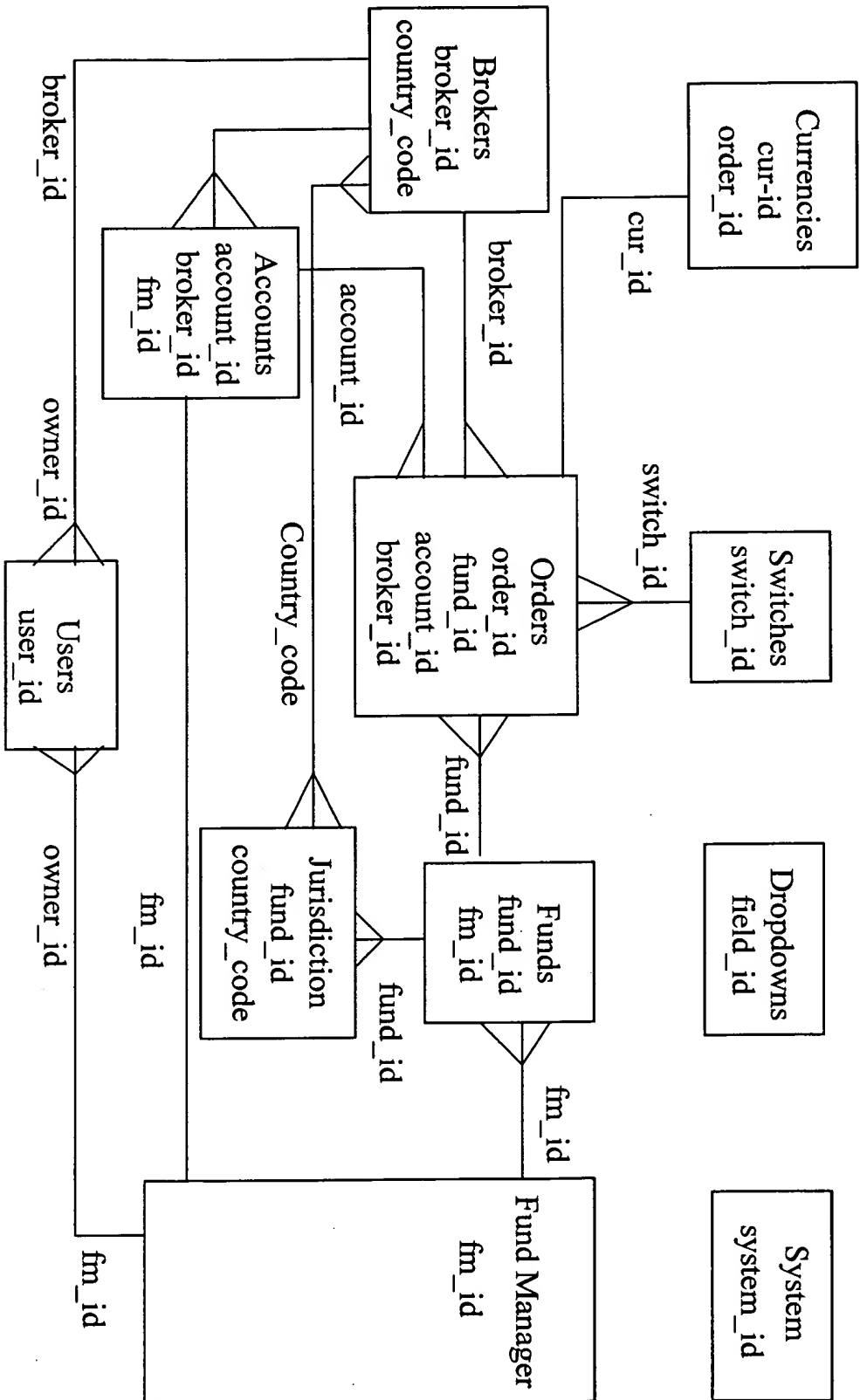


Fig 4

Logging On

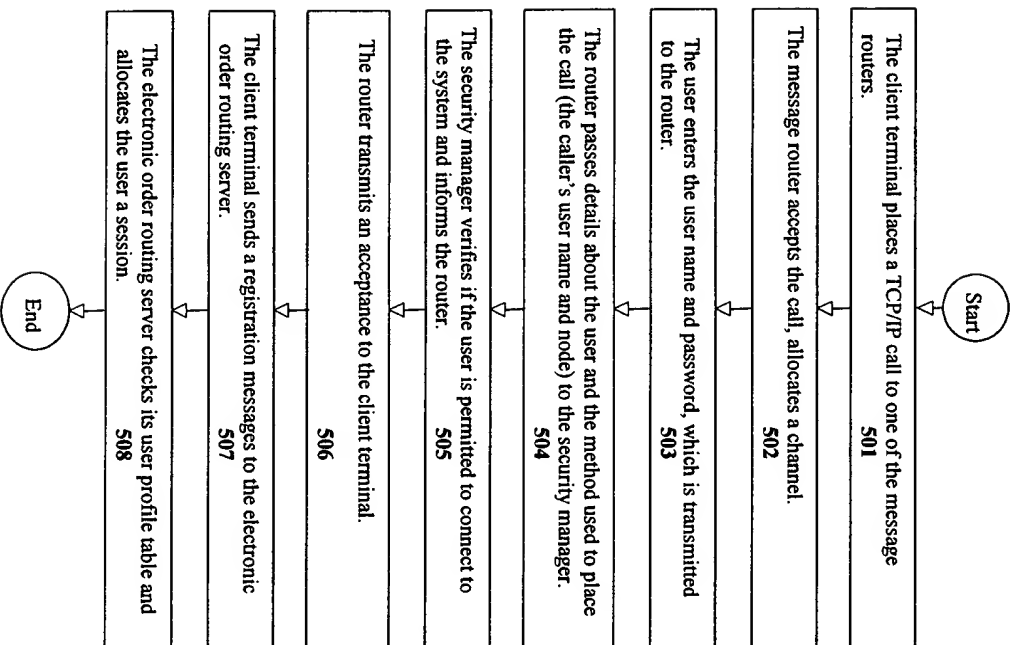


Fig 5

Viewing Order Detail

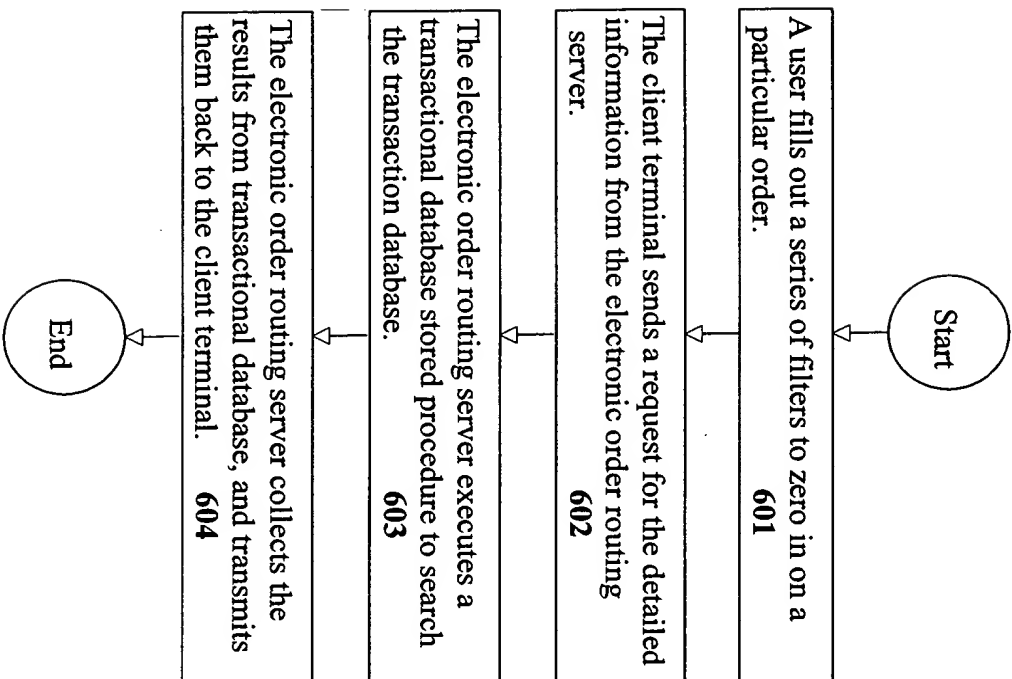


Fig 6

Fund Manager Order Download

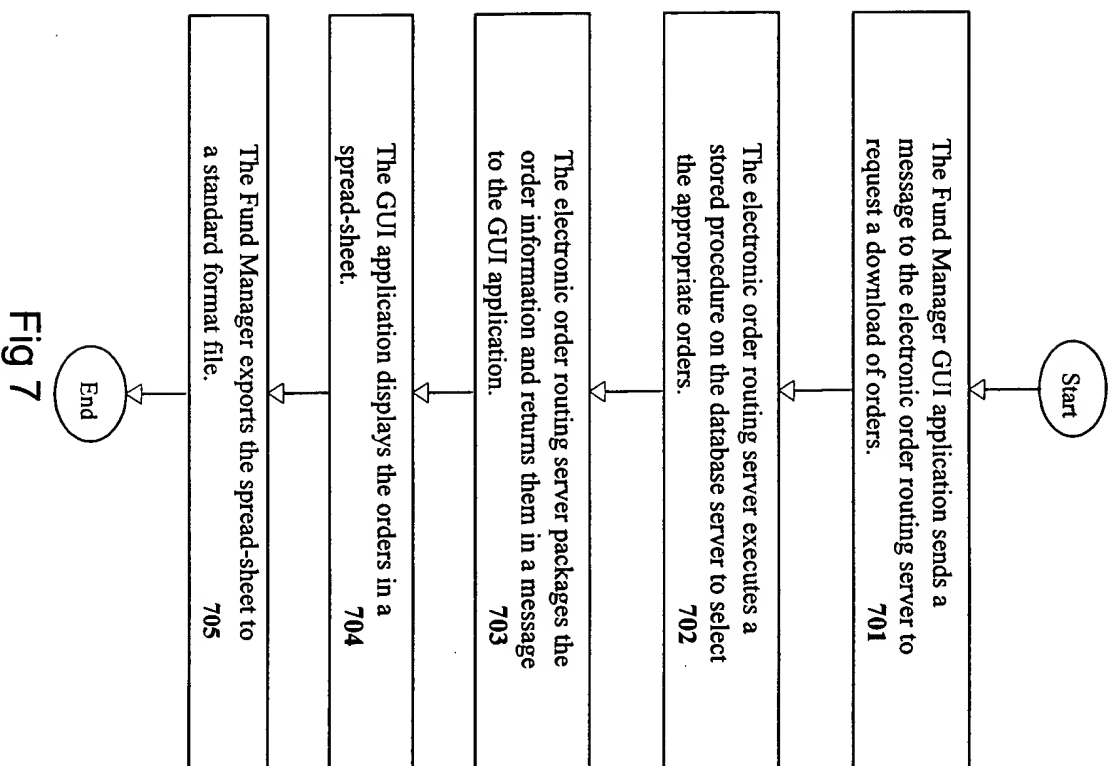
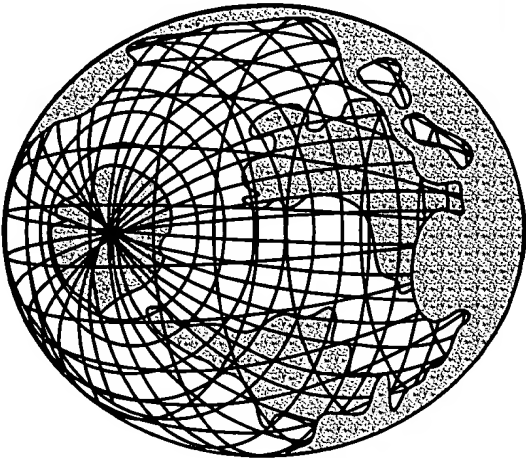


Fig 7

Broker User Module -
Initial Log-On

☐ CrossMar Login ☐



CrossMar

User ID:

Password:

FIG. 8

CrossMar Mutual Funds System User: VES

File View Options Reports Window Help

Broker User Module - View Rates

CrossMar Mutual Funds - View Rates User: VES

314 funds									
FundManage	FundName	FundID	ccy	Initial	NAV	Bid	Offer	Date	
Fidelity	America	971522	USD	0.0525	4.099	4.099	4.314	18-Mar-99	
Fidelity	American Growth Inc	907046	USD	0.0525	15.160	15.160	15.956	18-Mar-99	
Fidelity	ASEAN	971523	USD	0.0525	7.139	7.139	7.514	18-Mar-99	
Fidelity	Asian Special Situations	974004	USD	0.0525	6.049	6.049	6.367	18-Mar-99	
Fidelity	Australia	972152	AUD	0.0525	21.310	21.310	22.429	18-Mar-99	
Fidelity	Emerging Markets	972998	USD	0.0525	5.449	5.449	5.735	18-Mar-99	
Fidelity	Euro Balanced	973810	EUR	0.0525	10.370	10.370	10.914	18-Mar-99	
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99	
Fidelity	European	988524	EUR	0.0525	12.080	12.080	12.714	18-Mar-99	
Fidelity	European Growth	999131	EUR	0.0525	4.674	4.674	4.919	18-Mar-99	
Fidelity	European Sm Cos F	974608	EUR	0.0525	11.360	11.360	11.956	18-Mar-99	
Fidelity	Fid Premium Pilo Serv		GBP	0.0000	1.114	1.114	1.172	18-Mar-99	
Fidelity	Fidelity Gestion		EUR	0.0000	9.029	9.029	9.503	18-Mar-99	
Fidelity	Fidelity Pfl Selector Glb		USD	0.0000	12.080	12.080	12.714	18-Mar-99	
Fidelity	Fidelity Premium Pfl		USD	0.0000	11.930	11.930	12.556	18-Mar-99	
Fidelity	France	971526	EUR	0.0525	23.330	23.330	24.555	18-Mar-99	

Fund Manager

Fund Name

Fund ID

Currency

☐ Exact Search

SaveLayout

Search

Clear

Exit

FIG. 9

Broker User Module - Transaction

CrossMar Mutual Funds System User: VES

File View Options Reports Window Help

CrossMar Mutual Funds - View Rates User: VES

314 funds									
FundManage	FundName	FundID	ccy	Initial	NAV	Bid	Offer	Date	
Fidelity	America	971522	USD	0.0525	4.099	4.099	4.314	18-Mar-99	
Fidelity	American Growth Inc	907046	USD	0.0525	15.160	15.160	15.956	18-Mar-99	
Fidelity	ASEAN	971523	USD	0.0525	7.139	7.139	7.514	18-Mar-99	
Fidelity	Asian Special Situations	974004	USD	0.0525	6.049	6.049	6.367	18-Mar-99	
Fidelity	Australia	972152	AUD	0.0525	21.310	21.310	22.429	18-Mar-99	
Fidelity	Emerging Markets	972998	USD	0.0525	5.449	5.449	5.735	18-Mar-99	
Fidelity	Euro Balanced	973810	EUR	0.0525	10.370	10.370	10.914	18-Mar-99	
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99	
Fidelity	European	988524	EUR	0.0525	12.080	12.080	12.714	18-Mar-99	
Fidelity	European Growth	999131	EUR	0.0525	4.674	4.674	4.919	18-Mar-99	
Fidelity	European Sm Cos F	974608	EUR	0.0525	11.360	11.360	11.956	18-Mar-99	
Fidelity	Fid Premium Pilo Serv		GBP	0.0000	1.114	1.114	1.172	18-Mar-99	
Fidelity	Fidelity Geston		EUR	0.0000	9.029	9.029	9.503	18-Mar-99	
Fidelity	Fidelity Geston		EUR	0.0000	8.644	8.644	9.098	18-Mar-99	
Fidelity	Fidelity Pfl Selector Glb		USD	0.0000	12.080	12.080	12.714	18-Mar-99	
Fidelity	Fidelity Premium Pfl		USD	0.0000	11.930	11.930	12.556	18-Mar-99	
Fidelity	France	971526	EUR	0.0525	23.330	23.330	24.555	18-Mar-99	

Fund Manager

Fund Name

Fund ID

Currency

☐ Exact Search

SaveLayout

Search

Clear

Exit

FIG. 10A

CrossMar Mutual Funds										Broker	
File View Options Maintenance Reports Windows Help											
View Funds											
Transaction											
FundManage	FundName	ISIN_GC	Currency	Initial	Redemptor	NAV	Bid	Offer	PricingDate		
FundMgrAB	Japanese Smaller Companies	LU0051759568	USD	5.000	1.000%	175.000	11.200	11.860	31/12/1998		
Book Shares <input type="radio"/> Nominee <input checked="" type="radio"/> Client											
Basis <input checked="" type="radio"/> Shares <input type="radio"/> Cash <input type="radio"/> Percentage											
Number Of Shares <input type="text" value="8,000"/>											
Book Shares <input checked="" type="radio"/> Standard <input type="radio"/> Non Standard											
Settlement CCY <input type="text" value="USD"/>											
Account <input type="text" value="D-003330"/>											
Dealing Terms <input type="text" value="Standard"/>											
Transaction Type <input type="text" value="Redemption"/>											
<input type="radio"/> Full <input checked="" type="radio"/> Partial											
Client <input type="text" value="Client48"/>											
Order Status <input type="text"/>											
Save Layout <input type="button" value="Submit"/> <input type="button" value="Exit"/>											

FIG. 10B

Broker User Module - Sample of Fund Pricing with Selection of Fund, "Jump" to Transaction Screen

CrossMar Mutual Funds - Place Order					User: VES			
Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99

Book Shares

☒ Nominee ☐ Client

Account

Dealing Terms

Standard

Basis

☒ Shares ☐ Cash

Transaction Type

Purchase

Number of Shares

Settlement

☒ Standard ☐ Non standard

Settlement CCY

EUR

Transaction Reference

Order Status

Pending

Exit

Allocate

Submit

Next

Previous

FIG. 11

Broker User Module - Sample of Purchase Transaction (for shares, standard settlement)

CrossMar Mutual Funds - Place Order

User: VES

Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99

Book Shares

☒ Nominee ☐ Client

Account

Dealing Terms

Standard

Basis

☒ Shares ☐ Cash

Transaction Type

Purchase

Number of Shares

Settlement

☒ Standard ☐ Non standard

Settlement CCY

EUR

Transaction Reference

Order Status

Pending

Exit

Allocate

Submit

Next

Previous

FIG. 12

Broker User Module - Sample of Purchase Transaction (for cash, standard settlement)

CrossMar Mutual Funds - Place Order										User: VES	
Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date			
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99			

<input checked="" type="radio"/> Book Shares		<input type="radio"/> Basis		<input type="text"/> Cash amount		<input type="radio"/> Settlement	
<input checked="" type="radio"/> Nominee <input type="radio"/> Client		<input type="radio"/> Shares <input checked="" type="radio"/> Cash				<input type="radio"/> Standard <input checked="" type="radio"/> Non standard	
Account <input type="text"/>		Transaction CCY <input type="text"/>		Rounding <input type="text"/>		Settlement CCY <input type="text"/>	
Dealing Terms <input type="text"/>		Transaction Type <input type="text"/>				NS Instructions	
Standard <input type="text"/>		Purchase <input type="text"/>				Bank <input type="text"/>	
						City <input type="text"/>	
						Account ID <input type="text"/>	

Transaction Reference <input type="text"/>	
Order Status <input type="text"/>	
Pending <input type="text"/>	

<input type="text"/> Exit	<input type="text"/> Allocate	<input type="text"/> Submit	<input type="text"/> Next	<input type="text"/> Previous
---------------------------	-------------------------------	-----------------------------	---------------------------	-------------------------------

FIG. 13

Broker User Module - Sample of Purchase Transaction (for cash, non-standard settlement)

CrossMar Mutual Funds - Place Order

User: VES

Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99

Book Shares

☐ Nominee
 ☒ Client

Basis

☐ Shares
 ☒ Cash

Cash amount

Settlement

☐ Standard
 ☒ Non standard

Account

Transaction CCY

EUR

Rounding

Settlement CCY

EUR

Dealing Terms

Standard

Transaction Type

Redemption

☐ Full
 ☒ Partial

NS Instructions

Bank

City

Account ID

Transaction Reference

Order Status

Pending

Exit

Allocate

Submit

Next

Previous

FIG. 14

Broker User Module - Sample of a Full Redemption

CrossMar Mutual Funds - Place Order

User: VES

Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date
Fidelity	Asian Special Situations	974004	USD	0.0525	6.049	6.049	6.367	22-Mar-99

Book Shares —

☒ Nominee ☐ Client

Basis —

☒ Shares ☐ Cash

Number of Shares —

1000

Settlement —

☒ Standard ☐ Non standard

Account

FIDVESJOM001

Settlement CCY

EUR

Dealing Terms

Standard

Transaction Type

Purchase

Allocations		
ClientId	AccountId	Allocation
VESBRM	VESBRM001	200
<input checked="" type="checkbox"/> VESJOM	VESJOM001	800

Transaction Reference

Order Status

Pending

Save Layout

Exit

Allocate

Submit

Next

Previous

FIG. 15

FIG. 16

FIG. 17

Broker User Module - Partial Switch Transaction (Cash)

CrossMar Mutual Funds - Place Order					User: VES			
Fund Manager	Fund Name	Fund ID	CCY	Initial	NAV	Bid	Offer	Price Date
Fidelity	America	971522	USD	0.0525	4.099	4.099	4.314	18-Mar-99
Fidelity	Japan	971532	JPY	0.0525	121.600	121.600	127.984	18-Mar-99

Book Shares

☒ Nominee ☐ Client

Basis

☐ Shares ☒ Cash

Cash Amount

Account

Transaction CCY

EUR

Rounding

Transaction Type

Switch

☐ Full ☒ Partial

Transaction Reference

Order Status

Pending

Exit

Allocate

Submit

Next

Previous

FIG. 18

Broker User Module - Sample View Order

CrossMar Mutual Funds System User: VES
File View Options Reports Window Help

CrossMar Mutual Funds - View Orders User: VES

31 Orders

FMD	OrderRef	OrderDate	FundName	FundID	Status	Type	FMDref
Fidelity	VESFIDVESBRM00100	01-Mar-1999 08:58	Emerging Markets	972998	Filled	Purchase	Fidelity0016
Fidelity	VESFIDVESBRM00100	01-Mar-1999 09:05	Euro Blue Chip Fd	971525	Filled	Switch	Fidelity0017
Fidelity	VESFIDVESBRM00100	01-Mar-1999 09:07	Asian Special Situations	974004	Filled	Redemption	Fidelity0018
Fidelity	VESFIDVESBRM00100	01-Mar-1999 09:13	America	971522	Filled	Purchase	Fidelity0019
Fidelity	VESFIDVESBRM00100	01-Mar-1999 10:08	Asian Special Situations	974004	Filled	Purchase	Fidelity0020
Fidelity	VESFIDVESBRM00100	01-Mar-1999 10:14	Emerging Markets	972998	Filled	Switch	Fidelity0021
Fidelity	VESFIDVESBRM00100	01-Mar-1999 10:16	Euro Blue Chip Fd	971525	Filled	Redemption	Fidelity0022
Fidelity	VESFIDVESJOM001000	19-Mar-1999 09:35	Euro Balanced	973810	Filled	Purchase	Fidelity0023
Fidelity	VESFIDVESJOM001000	19-Mar-1999 10:13	Euro Balanced	973810	Filled	Purchase	Fidelity0024
Fidelity	VESFIDVESJOM001000	19-Mar-1999 10:59	Euro Blue Chip Fd	971525	ReceivedFM	Purchase	
Fidelity	VESFIDVESBRM00100	19-Mar-1999 10:59	Euro Balanced	973810	ReceivedFM	Purchase	
Fidelity	VESFIDVESJOM001000	19-Mar-1999 11:00	Fidelity Gestion		ReceivedFM	Purchase	
Fidelity	VESFIDVESJOM001000	19-Mar-1999 11:01	Fidelity Pfl Selector Glb		Pending	Purchase	
Fidelity	VESFIDVESBRM00100	19-Mar-1999 11:01	Fidelity Premium Pfl		Pending	Purchase	

Fund Manager Fund Name Fund ID Status OrderDate
Exact Search SaveLayout Search Clear Exit Trade Cancel

FIG. 19A

Broker User Module - Sample View Order

CrossMar Mutual Funds			Broker																															
File View Options Maintenance Reports Windows Help																																		
View Orders																																		
<table border="1"><thead><tr><th>Orders</th><th>Order ID</th><th>FM ID</th><th>Account No</th><th>Client ID</th><th>Fund Name</th></tr></thead><tbody><tr><td></td><td>199907141001</td><td>FundMgrABC</td><td>k-2456</td><td></td><td>Emerging Markets</td></tr><tr><td></td><td>199907151003</td><td>FundMgrABC</td><td>k-2456</td><td></td><td>Asian Opportunities</td></tr><tr><td></td><td>199907151004</td><td>FundMgrABC</td><td>k-2456</td><td></td><td>Asian Opportunities</td></tr><tr><td></td><td>199907151005</td><td>FundMgrABC</td><td>D-003330</td><td>Client148</td><td>Eastern European</td></tr></tbody></table>					Orders	Order ID	FM ID	Account No	Client ID	Fund Name		199907141001	FundMgrABC	k-2456		Emerging Markets		199907151003	FundMgrABC	k-2456		Asian Opportunities		199907151004	FundMgrABC	k-2456		Asian Opportunities		199907151005	FundMgrABC	D-003330	Client148	Eastern European
Orders	Order ID	FM ID	Account No	Client ID	Fund Name																													
	199907141001	FundMgrABC	k-2456		Emerging Markets																													
	199907151003	FundMgrABC	k-2456		Asian Opportunities																													
	199907151004	FundMgrABC	k-2456		Asian Opportunities																													
	199907151005	FundMgrABC	D-003330	Client148	Eastern European																													
<table><tr><td>Fund Manager</td><td>From Date</td><td>To Date</td></tr><tr><td><input type="text"/></td><td>15/07/1999</td><td>16/07/1999</td></tr><tr><td>Fund Name</td><td>Order ID</td><td>Status</td></tr><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table>					Fund Manager	From Date	To Date	<input type="text"/>	15/07/1999	16/07/1999	Fund Name	Order ID	Status	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
Fund Manager	From Date	To Date																																
<input type="text"/>	15/07/1999	16/07/1999																																
Fund Name	Order ID	Status																																
<input type="text"/>	<input type="text"/>	<input type="text"/>																																
<table><tr><td><input type="button" value="Search"/></td><td><input type="button" value="Clear"/></td><td><input type="button" value="Refresh"/></td><td><input type="button" value="Details"/></td><td><input type="button" value="Trade Cancel"/></td></tr><tr><td><input type="button" value="Print"/></td><td><input type="button" value="Save Layout"/></td><td><input type="button" value="Exit"/></td><td colspan="2"></td></tr></table>					<input type="button" value="Search"/>	<input type="button" value="Clear"/>	<input type="button" value="Refresh"/>	<input type="button" value="Details"/>	<input type="button" value="Trade Cancel"/>	<input type="button" value="Print"/>	<input type="button" value="Save Layout"/>	<input type="button" value="Exit"/>																						
<input type="button" value="Search"/>	<input type="button" value="Clear"/>	<input type="button" value="Refresh"/>	<input type="button" value="Details"/>	<input type="button" value="Trade Cancel"/>																														
<input type="button" value="Print"/>	<input type="button" value="Save Layout"/>	<input type="button" value="Exit"/>																																

FIG. 19B

Broker User Module - Sample of Error Message

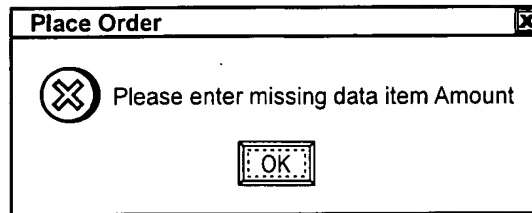
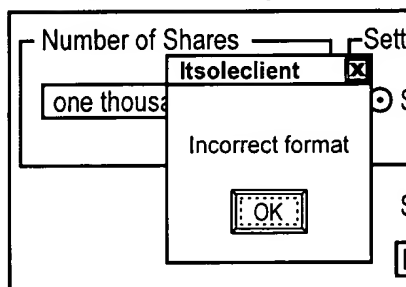


FIG. 20A

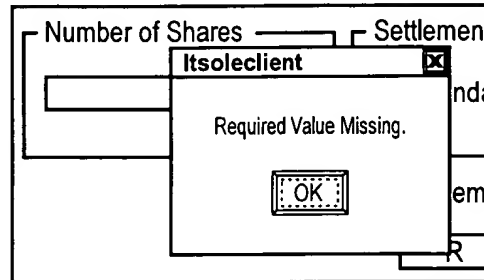
Broker User Module - Sample of Error Message



An error message in the
CORS Transaction Window.
The user entered "one
thousand" in the "Number of
Shares" field and then clicked
"Submit."

FIG. 20B

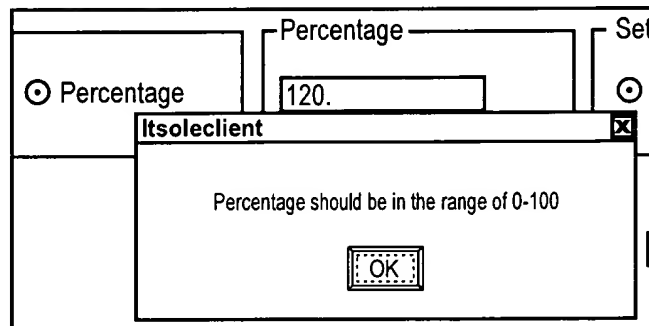
Broker User Module - Sample of Error Message



An error message in the CORS Transaction Window. The user neglected to enter a value in the "Number of Shares" field before clicking "Submit."

FIG. 20C

Broker User Module - Sample of Error Message



An error message in the CORS Transaction Window. The user entered a percentage greater than 100% in the "Percentage" field and clicked "Submit."

FIG. 20D

Broker User Module - Second Sample of Error Message

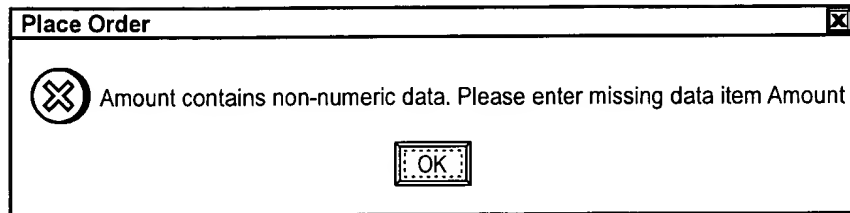


FIG. 21

Broker User Module - Sample Order Confirmation Message

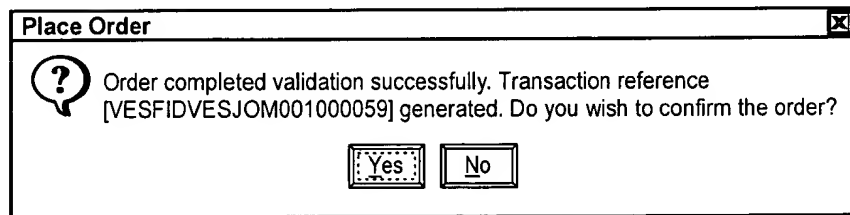
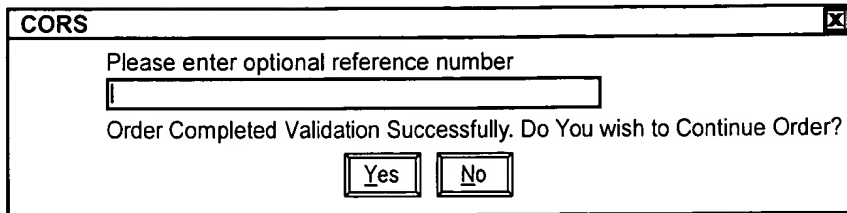


FIG. 22A

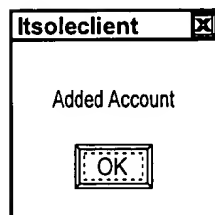
Broker User Module - Sample Order Confirmation Message



A screenshot of a software dialog box titled "CORS". The dialog box has a standard Windows-style title bar with a close button (X) in the top right corner. The main content area contains the text "Please enter optional reference number" followed by a single-line text input field. Below the input field, the text "Order Completed Validation Successfully. Do You wish to Continue Order?" is displayed. At the bottom of the dialog box, there are two buttons: "Yes" and "No".

FIG. 22B

Broker User Module - Sample Order Confirmation Message

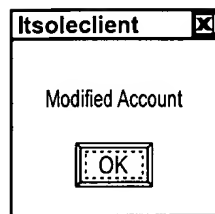


A screenshot of a software dialog box titled "Itsoleclient". The dialog box has a standard Windows-style title bar with a close button (X) in the top right corner. The main content area contains the text "Added Account". Below the text, there is a single button labeled "OK".

CORS message indicating that
an account has been added
successfully

FIG. 22C

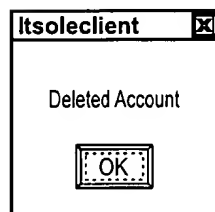
Broker User Module - Sample Order Confirmation Message



CORS message
indicating that an account
has been updated
successfully

FIG. 22D

Broker User Module - Sample Order Confirmation Message



CORS message indicating that
an account has been
successfully deleted

FIG. 22E

Broker User Module - View Orders

CrossMar Mutual Funds System User: FIDELITY

File View Options Reports Window Help

CrossMar Mutual Funds - View Orders User: FIDELITY

30 orders									
BKID	OrderRef	OrderDate	FundName	FundID	Status	Type	FMrref	Price	
VES	VESFIDVESBRM00100	28-Feb-1999 15:45	ASEAN	971523	Pending	Switch			
VES	VESFIDVESBRM00100	28-Feb-1999 15:53	Australia	972152	Pending	Redemption			
VES	VESFIDVESBRM00100	28-Feb-1999 15:54	Euro Balanced	973810	Pending	Switch			
VES	VESFIDVESBRM00100	01-Mar-1999 08:42	Fidelity Gestion		Pending	Purchase			
VES	VESFIDVESBRM00100	01-Mar-1999 08:44	Asian Special Situations	974004	Pending	Purchase			
VES	VESFIDVESJOM00100	01-Mar-1999 08:45	Australia	972152	Pending	Purchase			
VES	VESFIDVESBRM00100	01-Mar-1999 08:58	Emerging Markets	972998	Pending	Purchase			
VES	VESFIDVESBRM00100	01-Mar-1999 09:05	Euro Blue Chip Fd	971525	Pending	Switch			
VES	VESFIDVESBRM00100	01-Mar-1999 09:07	Asian Special Situations	974004	Pending	Redemption			
VES	VESFIDVESBRM00100	01-Mar-1999 09:13	America	971522	Pending	Purchase			
VES	VESFIDVESBRM00100	01-Mar-1999 10:08	Asian Special Situations	974004	Pending	Purchase			
VES	VESFIDVESBRM00100	01-Mar-1999 10:14	Emerging Markets	972998	Pending	Switch			
VES	VESFIDVESBRM00100	01-Mar-1999 10:16	Euro Blue Chip Fd	971525	Pending	Redemption			
VES	VESFIDVESJOM00100	19-Mar-1999 09:35	Euro Balanced	973810	Pending	Purchase			
VES	VESFIDVESJOM00100	19-Mar-1999 10:13	Euro Balanced	973810	Pending	Purchase			
VES	VESFIDVESBRM00100	19-Mar-1999 10:59	Euro Blue Chip Fd	971525	Pending	Purchase			

Broker Fund Name Fund ID Status Order Date

☐ Exact Search

SaveLayout

Search




Clear

Exit

Upload


Download

FIG. 23

CrossMar Mutual Funds User: VES   

File View Options Reports Window Help

Broker User Module - Change Password

Password Change 

Present Password

New Password

Confirm Password

OK

Exit

FIG. 24

Broker User Module - Set Defaults

User Defaults

Share Type

☒ Global Certificate
☐ Registered Shares

Book Shares

☒ Nominee
☐ Client

Settlement

☒ Standard
☐ Non Standard

Fund Type

☒ ISIN
☐ CEDEL
☐ LOCAL

Basis

☒ Shares
☐ Cash
☐ Percentage

Deal Terms

Standard
Rounding
Up

Currency

Transaction Currency

USD

Settlement Currency

EUR

OK

Cancel

Apply

FIG. 25

Broker User Module - Add Clients

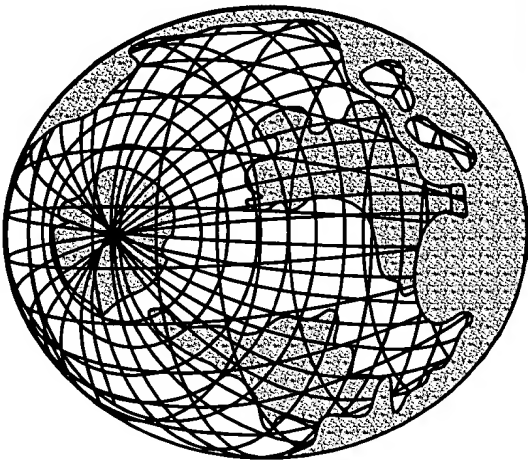
CrossMar Mutual Funds - Add Client User:VES

Clients		
ClientName	ClientID	BKID
Mary Bryant	VESBRM	VES
Jones Mark	VESJOM	VES
XYZ Client	VESXYZ	VES

Save Layout Add Delete Upload Exit

FIG. 26

CrossMar Login



CrossMar

User ID :

Password :

OK

Cancel

Clear

FIG. 27

CrossMar Mutual Funds System User: VES

File View Options Reports Window Help

Fund Manager User Module - View Rates

CrossMar Mutual Funds - View Rates User: VES

314 funds									
FundManage	FundName	FundID	ccy	Initial	NAV	Bid	Offer	Date	
> Fidelity	America	971522	USD	0.0525	4.099	4.099	4.314	18-Mar-99	
Fidelity	American Growth Inc	907046	USD	0.0525	15.160	15.160	15.956	18-Mar-99	
Fidelity	ASEAN	971523	USD	0.0525	7.139	7.139	7.514	18-Mar-99	
Fidelity	Asian Special Situations	974004	USD	0.0525	6.049	6.049	6.367	18-Mar-99	
Fidelity	Australia	972152	AUD	0.0525	21.310	21.310	22.429	18-Mar-99	
Fidelity	Emerging Markets	972998	USD	0.0525	5.449	5.449	5.735	18-Mar-99	
Fidelity	Euro Balanced	973810	EUR	0.0525	10.370	10.370	10.914	18-Mar-99	
Fidelity	Euro Blue Chip Fd	971525	EUR	0.0525	12.040	12.040	12.672	18-Mar-99	
Fidelity	European	988524	EUR	0.0525	12.080	12.080	12.714	18-Mar-99	
Fidelity	European Growth	999131	EUR	0.0525	4.674	4.674	4.919	18-Mar-99	
Fidelity	European Sm Cos F	974608	EUR	0.0525	11.360	11.360	11.956	18-Mar-99	
Fidelity	Fid Premium Pilo Seiv		GBP	0.0000	1.114	1.114	1.172	18-Mar-99	
Fidelity	Fidelity Geston		EUR	0.0000	9.029	9.029	9.503	18-Mar-99	
Fidelity	Fidelity Geston		EUR	0.0000	8.644	8.644	9.098	18-Mar-99	
Fidelity	Fidelity Ptl Selector Glb		USD	0.0000	12.080	12.080	12.714	18-Mar-99	
Fidelity	Fidelity Premium Pfl		USD	0.0000	11.930	11.930	12.556	18-Mar-99	
Fidelity	France	971526	EUR	0.0525	23.330	23.330	24.555	18-Mar-99	

Fund Manager

Fund Name

Fund ID

Currency

☐ Exact Search

SaveLayout

Search

Clear

Exit

FIG. 28A

Fund Manager User Module - View Rates

CrossMar Mutual Funds System				FundManager - View Rates								
File View Options Maintenance Reports Windows Help												
Fund Name				Curre.	Bid Price	Offer	Price	NAV	Zwisch	Yield	Divid.	Perf.
Fund Prices & Information for :					16/07/99							
1												
2												
3					Bid	Offer	Price	NAV	Zwisch		Divid.	Perf.
4	Fund Name			Cmcy	Price	Price	Move	Per Share	gewinn	Yield	Rate	YTD
5												
6	American			USD	88.700	93.850	0.940	1530.500				
7	American Blue Chip			USD	10.780	11.400	0.090	10.400				
8	American Fledgeling			USD	95.010	100.520	0.630	300.000				
9	The New Fund			USD	88.170	92.580	0.790	917.790				
10	Asian Opportunities			USD	20.870	22.080	-0.190	263.200				
11	Balanced			EUR	7.200	7.630	0.000	28.800	0.110			
12	China			USD	12.060	12.760	-0.290	219.300				
13	Eastern European			EUR	14.460	15.300	-0.080	331.100				
14	Emerging European			USD	12.870	13.620	-0.070	65.000				
15	Emerging Markets			USD	9.560	10.120	0.030	111.000				
16	Emerging Markets Debt			USD	11.910	12.350	-0.010	49.700	1.300			
17	Euro Bond			EUR	5.990	6.210	-0.030	123.500	0.250	0.037		
18	Euro Equity			EUR	35.400	37.460	0.010	266.000				
19	European			EUR	33.380	35.320	0.070	242.400				
20	European High Yield Bond			EUR	5.280	5.480	-0.020	72.800	0.520			

No Errors Detected

FIG. 28B

Fund Manager User Module - View Orders

CrossMar Mutual Funds

FundManager - [View Orders]

File View Options Maintenance Reports Windows Help

1

Order ID

Fund

Fund

Broker

Client ID

Account

Order

Switch ID

Order

Order

Terms

Q

2

1999071

LU0053685 ABC

BrokerABC

k-2455

Redeem

0

19/07/1999

Filled

Cash

1

3

1999071

LU0053685 ABC

BrokerABC

k-2455

Purchase

0

19/07/1999

Filled

Cash

4

5

6

7

8

9

10

11

12

13

14

Export

Import

Parse

Accept

Get Orders

☒ New

☐ Dates

☐ Error

☐ New Order

No Errors Detected

Broker

Fund Name

Fund ID

Order ID

Status

Search

Clear

Exit

FIG. 29A

Fund Manager User Module - View Orders

CrossMar Mutual Funds

FundManager - [View Orders]

File View Options Maintenance Reports Windows Help

A	B	C	D	E	F	G	H	I	J	K
Order ID	Fund	Fund	Broker	Client ID	Account	Order	Switch ID	Order	Order	Terms
1	1999071	LU0053685	ABC	Broker 1	k-2455	Redeem	0	19/07/1999	Filed	Cash
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Export

Import

Parse

Accept

Get Orders

☒ New

☐ Dates

☐ Error

☐ New Order

No Errors Detected

Broker

Fund Name

Fund ID

Order ID

Status

Search

Clear

Exit

FIG. 29B

Fund Manager User Module - Sample Specification of Location of Download Files

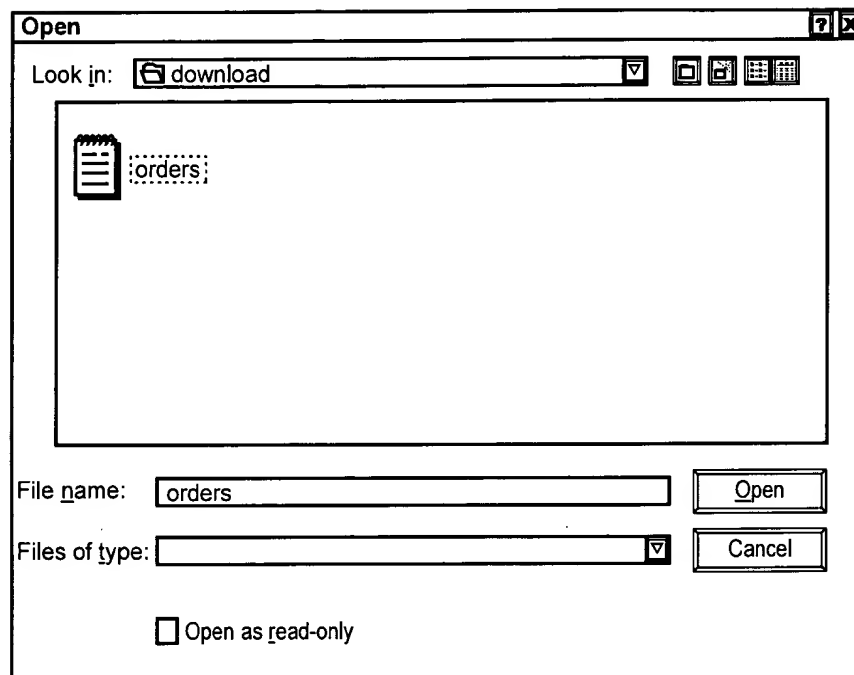
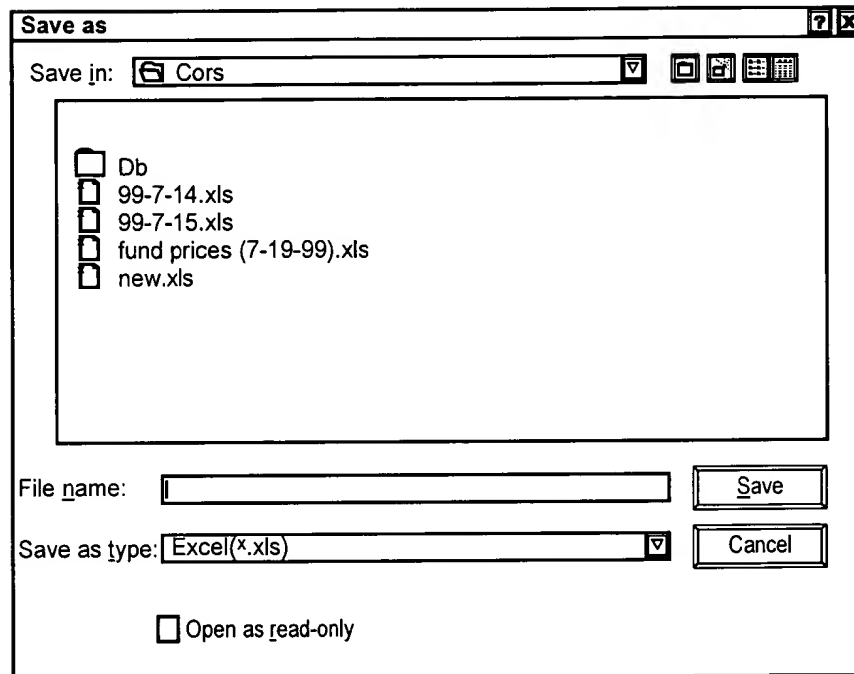


FIG. 30A

Fund Manager User Module - Sample Specification of Location of Download Files



Exporting order information to a user's local computer. The user must name the file and choose a location in which to store it.

FIG. 30B

1

Exit

FIG. 31

List of Database Fields in the "View Order" User Modules

#	Field	Description	Always Present?	Sample Value
1.	Order ID	Order Transaction Reference number	Yes	ABC189807131000
2.	Fund Code	CIEDEL, ISIN, or local code for fund	Yes	LU0072845869
3.	Fund Name	Fund name	Yes	XYZ Emerging Markets
4.	Broker Name	Broker Identifier	Yes	BBBrokerage
5.	Client ID	Client Identifier if client level order (Fund Manager's ID, not CrossMart's)	Yes, if 6=client acct.	Client48
6.	Account No	Broker Account number (inquiries of client)	Yes	12756
7.	Order Type	Purchase, Redeem, Switch, Purchase, Switch, Redeem	Yes, if 7=Switch	3
8.	Switch ID	Switch reference number, a unique numeric identifier linking the two sides of a switch.	N/A	July 7, 1999 12:00:00
9.	Order Date	Date the order was placed. After the daily cutoff time, new orders are dated as the next day.	Yes	Pending
10.	Order State	Pending, Received/FM, Cancel, Received/FM Cancel, Filled, Rejected, or Wait (only "Wait" is manually input).	Yes	Cash
11.	Terms	Shares, Cash, Percentage	Yes, if 11=Cash	150000
12.	Cash Amount	Amount of cash, if cash terms	Yes, if 11=Cash	EUR
13.	Transaction Currency	Currency of cash, if cash terms	Yes, if 11=Cash	USD
14.	Settlement Currency	Currency of settlement	Yes, if 11=Cash	Down
15.	Rounding	Up, Down, or Full-Fraction	Yes, if 11=Percentage	57
16.	Percentage	Percentage of holdings, if percentage terms (1)	Yes, if 11=Shares	1800
17.	No. of Shares	Number of shares, if share terms	Yes	Standard
18.	Settlement Type	Standard, Non-standard	Yes, if 18=Non-standard	Bob's Big Bank
19.	Bank	Bank name, if non-standard settlement	Optional	Metropolis
20.	City	City name, if non-standard settlement	Yes, if 18=Nonstandard	154562288
21.	Account	Bank account number, if non-standard settlement	Optional	87654321
22.	Swift	Swift code, if non-standard settlement	Yes	Standard
23.	Dealing Terms	Standard/Reinvest/Special Promotion	Yes, if 23=Reinvest	2%
24.	Reinvest Comm	All, 1%, or 2%	Optional	1234568
25.	FM Ref	Fund Manager Reference Number (optional)	Yes	124
26.	NAV	Net asset value per share, in fund currency	Yes	10000
27.	Total Funds	Total funds due to be received, in fund currency and local FX	Optional	1.35
28.	Total Shares	Total number of shares to be purchased or redeemed	Optional	0.11
29.	FX Rate	Foreign exchange rate used to convert settlement amount based in fund currency to settlement currency	Yes	13.10.1898
30.	Zwischengewinn	Re-invested interest rate of the fund since its inception	Yes	13.10.1898
31.	Value Date	Date funds available, if applicable	Yes	CORS VK
32.	Execution Date	Date uploaded into CORS	Yes	17:34:49
33.	Execution Time	Time uploaded into CORS	Yes	121.000
34.	Commission	Broker's price per share, in fund currency	Optional	0
35.	Rejection Reason	Reason for rejecting, if rejected. Often, unrecognized account number, redemption is greater than holding, or insufficient funds	Yes, if 10=Rejected	Insufficient funds
36.*	Date Priced	Date of pricing information	Yes	13.10.1898
37.*	Time Priced	Time of pricing information	Yes	17:29:36
38.	Entry Time	Dateline order entered	Yes	13.07.99 17:28:36
39.	Entered	User who entered the order	Yes	CORXYZ
40.	Accepted Time	Dateline order received by Fund Manager	Yes	13.07.99 17:34:49
41.	Accepted	User who received the order	Yes	CORALK
42.	Cancel Time	Dateline order cancelled	Yes	15.07.99 16:07:26
43.	Cancelled	User who cancelled the order	Yes	CORS VK

* Indicates item will be filled in by the Fund Manager upon confirmation or rejection of the order.

Fig 32